

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

12/15/2003

Ron Feece INTERNATIONAL BUSINESS MACHINES CORPORATION Dept. L2PA 5600 Cottle Road San Jose, CA 95193 EXAMINER

KOEHLER, ROBERT R

ART UNIT

PAPER NUMBER

1775

DATE MAILED: 12/15/2003

2

| 1 | APPLICATION NO. FILING DATE | | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-----------------------------|------------|----------------------|---------------------|------------------|
| • | 10/053,785 | 01/18/2002 | Mike Ming Yu Chen | SJO920000194US1 | 4281 |

TITLE OF INVENTION: METHOD FOR ELECTROPLATING A BODY-CENTERED CUBIC NICKEL-IRON ALLOY THIN FILM WITH A HIGH SATURATION FLUX DENSITY

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE | PUBLICATION FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|-----------|-----------------|------------------|------------|
| nonprovisional | NO | \$1330 | \$300 | \$1630 | 03/15/2004 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000

| INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where |
|--|
| the first of the current correspondence address and notification of maintenance feet will be mailed to the current correspondence address as |
| appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as appropriate. |
| appropriate. All futures corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for |
| indicated unless corrected below of directed otherwise in block 1, by (a) specifying a new correspondence address, and or (b) indicating a separate |
| maintenance fee notifications |

| INSTRUCTIONS: This form | n should be used for tran | smitting the ISSUE | FEE and PUBLIC | ATION FEE (if requ | nired). Blocks 1 through 4 s | hould be completed where |
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| appropriate. All further corrindicated unless corrected be maintenance fee notifications | espondence including the I elow or directed otherwise s. | in Block 1, by (a) s | rs and notification specifying a new co | or maintenance fees or orrespondence address | will be mailed to the current ;; and/or (b) indicating a sep | arate "FEE ADDRESS" for |
| CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) | | | | Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must | | |
| 759 | 90 12/15/2003 | | | | te of mailing or transmission. | |
| Ron Feece INTERNATIONAL BUSINESS MACHINES CORPORATION Dept. L2PA | | | TION | Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below. | | |
| 5600 Cottle Road San Jose, CA 95193 | t | | | | , | (Depositor's name) |
| Jan 3030, 011 33 132 | • | | | | | (Signature) |
| | | | | | | (Date) |
| APPLICATION NO. | FILING DATE | FII | RST NAMED INVEN | TOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| nonprovisional | NO | \$1330 | | \$300 | \$1630 | 03/15/2004 |
| EXAM | INER | ART UNIT | C | LASS-SUBCLASS |] | |
| KOEHLER, | ROBERT R | 1775 | | 205-224000 | | |
| 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. | | | names of up to agents OR, altern firm (having as a agent) and the na | the patent front page 3 registered patent : atively, (2) the name member a registered umes of up to 2 regists. If no name is liste | attorneys or 1 of a single attorney or 2 tered patent | |
| 3. ASSIGNEE NAME AND PLEASE NOTE: Unless been previously submitted (A) NAME OF ASSIGNI | an assignee is identified be d to the USPTO or is being : | low, no assignee data submitted under sepa | a will appear on the rate cover. Comple | or type) e patent. Inclusion of a tion of this form is NC 'Y and STATE OR CC | assignee data is only appropri IT a substitute for filing an ass DUNTRY) | ate when an assignment has signment. |
| Please check the appropriate | assignee category or category | | | 🔾 individual 🔾 | corporation or other private g | roup entity 🚨 government |
| 4a. The following fee(s) are | enclosed: | | Payment of Fee(s): | | -slosed | |
| ☐ Issue Fee ☐ Publication Fee | | | | ount of the fee(s) is er card. Form PTO-203 | | |
| ☐ Advance Order - # of | Copies | | The Director is I | ereby authorized by | charge the required fee(s), or | credit any overpayment, to |
| Director for Patents is reques | sted to apply the Issue Fee a | | Deposit Account Nu if any) or to re-appl | | issue fee to the application id | |
| | | | | | | |
| (Authorized Signature) | | (Date) | | | | |
| other than the applicant; interest as shown by the re- | d Publication Fee (if require a registered attorney or agreed of the United States P | gent; or the assignee atent and Trademark | Office. | | | |
| estimated to take 12 minum completed application for case. Any comments on suggestions for reducing t Patent and Trademark (22313-1450 DO NOT S | tion is required by 37 CFR by the public which is to f y is governed by 35 U.S.C. tes to complete, including g m to the USPTO. Time with amount of time you his burden, should be sent Office, U.S. Department END FEES OR COMPLE for Patents, Alexandria, Vir | ill vary depending user to the Chief Information of Commerce, Ale | non the individual | | | , |



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| Ron Feece INTERNATIONAL BUSINESS MACHINES CORPORATION | | | KOEHLER, ROBERT R | | |
| Dept. L2PA | L BUSINESS MACHINES | CORPORATION | ART UNIT | PAPER NUMBER | |
| 5600 Cottle Road San Jose, CA 95193 | | | 1775 | | |
| | | | DATE MAILED: 12/15/2003 | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 272 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 272 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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| | | | DATE MAILED: 12/15/2003 | | |

Notice of Fee Increase on October 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2003. See Revision of Patent Fees for Fiscal Year 2004; Final Rule, 68 Fed. Reg. 41532, 41533, 41534 (July 14, 2003).

The current fee schedule is accessible from (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2003 (or mailed with a certificate of mailing on or after October 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2003, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

(b) Issue fee for issuing a design patent:

(c) Issue fee for issuing a plant patent:

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

| | Application No. | Applicant(s) | | | | | |
|--|---|--|--|--|--|--|--|
| | 10/052 795 | CHEN ET AL. | | | | | |
| Notice of Allowability | 10/053,785 Examiner | Art Unit | | | | | |
| • | | | | | | | |
| | Robert R. Koehler | 1775 | | | | | |
| The MAILING DATE f this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to | plication. If not included not will be mailed in due course. THIS | | | | | |
| 1. This communication is responsive to the originally-filed approximately the second | plication papers. | | | | | | |
| 2. The allowed claim(s) is/are <u>1-14</u> . | | | | | | | |
| 3. \boxtimes The drawings filed on <u>18 January 2002</u> are accepted by th | | | | | | | |
| 4. Acknowledgment is made of a claim for foreign priority ur | nder 35 U.S.C. § 119(a)-(d) or (f). | | | | | | |
| a) ☐ All b) ☐ Some* c) ☐ None of the: | | | | | | | |
| Certified copies of the priority documents have | e been received. | | | | | | |
| Certified copies of the priority documents have | | | | | | | |
| Copies of the certified copies of the priority do | cuments have been received in this | national stage application from the | | | | | |
| International Bureau (PCT Rule 17.2(a)). | | | | | | | |
| * Certified copies not received: | | | | | | | |
| 5. Acknowledgment is made of a claim for domestic priority u reference was included in the first sentence of the specification. | ation or in an Application Data Shee | ional application) since a specific t. 37 CFR 1.78. | | | | | |
| (a) The translation of the foreign language provisional a | | | | | | | |
| 6. Acknowledgment is made of a claim for domestic priority u in the first sentence of the specification or in an Application | nder 35 U.S.C. §§ 120 and/or 121 s n Data Sheet. 37 CFR 1.78. | ince a specific reference was included | | | | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of | f this communication to file a reply c this application. THIS THREE-MO | omplying with the requirements noted NTH PERIOD IS NOT EXTENDABLE. | | | | | |
| 7. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give | nitted. Note the attached EXAMINER es reason(s) why the oath or declara | R'S AMENDMENT or NOTICE OF ation is deficient. | | | | | |
| 8. CORRECTED DRAWINGS (as "replacement sheets") must | | • | | | | | |
| (a) ☐ including changes required by the Notice of Draftspers | son's Patent Drawing Review(PTO | -948) attached | | | | | |
| 1) hereto or 2) to Paper No | | | | | | | |
| (b) ☐ including changes required by the proposed drawing of | (b) including changes required by the proposed drawing correction filed, which has been approved by the Examiner. | | | | | | |
| (c) including changes required by the attached Examiner | 's Amendment / Comment or in the 0 | Office action of Paper No | | | | | |
| Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t | I.84(c)) should be written on the drawi the margin according to 37 CFR 1.121 | ings in the front (not the back) of (d). | | | | | |
| 9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR T | OSIT OF BIOLOGICAL MATERIAL INTHE DEPOSIT OF BIOLOGICAL MA | must be submitted. Note the ATERIAL. | | | | | |
| Attachm nt(s) | | | | | | | |
| 1 ☐ Notice of References Cited (PTO-892) | | atent Application (PTO-152) | | | | | |
| 2☐ Notice of Draftperson's Patent Drawing Review (PTO-948) | | (PTO-413), Paper No | | | | | |
| 3⊠ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No. 2 | ^{8),} 7□ Examiner's Amendm | nent/Comment | | | | | |
| 4 Examiner's Comment Regarding Requirement for Deposit | 8⊠ Examiner's Stateme | nt of Reasons for Allowance | | | | | |
| of Biological Material | • | DR. Roelle | | | | | |
| | | ROBERT R. KOEHLER PRIMARY EXAMINER | | | | | |
| | • | ART UNIT 1775 | | | | | |

U.S. Patent and Trademark Office PTOL-37 (Rev. 11-03) Application/Control Number: 10/053,785

Art Unit: 1775

DETAILED ACTION

Allowable Subject Matter

Claims 1 to 14 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art does not teach, suggest, or disclose, either alone or in any combination, applicants' claimed method of forming a thin magnetic film of nickel-iron alloy on a substrate wherein the Ni-Fe alloy film contains 63% to 81% iron by weight, the aqueous plating solution contains more than four and less than seven Ni^{++} ions for each Fe^{++} ion, and the Ni-Fe electroplated layer is annealed in the presence of an external magnetic field.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Robert Koehler whose telephone number is (703) 308-1974. The Examiner can normally be reached on Tuesday to Friday from 8:30 AM to 6:00 PM. The Examiner can also be reached on alternate Mondays.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Deborah Jones, can be reached on (703) 308-3822. The fax phone number for this Art Unit is (703) 872-9306. Any inquiry of a general nature or relating to the status of this



Art Unit: 1775

application or proceeding should be directed to the Technology Center receptionist whose telephone number is (703) 308-0661.

ROBERT R. KOEHLER PRIMARY EXAMINER

Art Unit 1775 December 11, 2003